

CERTIFICATE OF ANALYSIS

Work Order : **EW2003051**
Client : **WOLLONGONG CITY COUNCIL**
Contact : DELLA KUTZNER
Address : 41 BURELLI STREET
 WOLLONGONG NSW, AUSTRALIA 2500

Telephone : +61 02 4227 7111
Project : Whytes Gully Dust Deposition
Order number : 1011047
C-O-C number : ----
Sampler : ----
Site : Monthly Dust
Quote number : WO/005/18 TENDER
No. of samples received : 5
No. of samples analysed : 5

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Laboratory : Environmental Division NSW South Coast
Contact : Glenn Davies
Address : 1/19 Ralph Black Dr, North Wollongong 2500
 4/13 Geary Pl, North Nowra 2541
 Australia NSW Australia
Telephone : 02 42253125
Date Samples Received : 03-Jul-2020 11:23
Date Analysis Commenced : 07-Jul-2020
Issue Date : 14-Jul-2020 12:59



Accreditation No. 825
 Accredited for compliance with
 ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Joel Mullarvey	Laboratory Technician	Newcastle - Inorganics, Mayfield West, NSW



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.
 LOR = Limit of reporting
 ^ = This result is computed from individual analyte detections at or above the level of reporting
 ø = ALS is not NATA accredited for these tests.
 ~ = Indicates an estimated value.

- Analytical work for this work order will be conducted at ALS Newcastle.
- Analysis as per AS3580.10.1-2016. Samples passed through a 1mm sieve prior to analysis. NATA accreditation is not held for results reported in g/m².mth.
- Sampling completed as per FWI-EN010 Sampling of Dust Depositon Gauges.

Analytical Results

Sub-Matrix: DEPOSITIONAL DUST
 (Matrix: AIR)

Client sample ID

				DDG 1 01/06/2020 - 03/07/2020	DDG 2 01/06/2020 - 03/07/2020	DDG 3 01/06/2020 - 03/07/2020	DDG 4 01/06/2020 - 03/07/2020	DDG 5 01/06/2020 - 03/07/2020
Client sampling date / time				03-Jul-2020 09:20	03-Jul-2020 08:45	03-Jul-2020 08:55	03-Jul-2020 09:00	03-Jul-2020 09:05
Compound	CAS Number	LOR	Unit	EW2003051-001	EW2003051-002	EW2003051-003	EW2003051-004	EW2003051-005
				Result	Result	Result	Result	Result
EA120: Ash Content								
Ash Content	----	0.1	g/m ² .month	0.2	0.5	0.4	0.2	0.2
Ash Content (mg)	----	1	mg	3	9	8	3	3
EA125: Combustible Matter								
Combustible Matter	----	0.1	g/m ² .month	0.1	0.1	0.2	0.1	<0.1
Combustible Matter (mg)	----	1	mg	3	2	4	2	1
EA141: Total Insoluble Matter								
Total Insoluble Matter	----	0.1	g/m ² .month	0.3	0.6	0.6	0.3	0.2
Total Insoluble Matter (mg)	----	1	mg	6	11	12	5	4